CLAIMS

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- An Identity Generator device (6) arranged for generating a user's service indicator (USI) for a user to access a number of services offered by a service provider (1; 2; 3) through a network operator where user data (4) for the user are accessible, this user's service indicator being usable between the service provider (SP-1; SP-2; SP-N) domain and the network operator (IDP) domain to unambiguously identify the user at each respective domain, the Identity Generator device characterized in that it comprises:
 - means for obtaining a master user's identifier (UID) usable to identify the user at the operator's network;
- 15 means for obtaining a service identifier (SID), indicative of services to be accessed at the service provider; and
 - means (F) for constructing a user's service indicator (USI) that includes the master user's identifier (UID) and the service identifier (SID).
 - 2. The Identity Generator device of claim 1, wherein the service identifier (SID), indicative of services to be accessed at the service provider, comprises at least one element selected from: a service provider indicator (SPI), and a number of service indicators (S1I; SMI).
 - 3. The Identity Generator device of claim 1, further comprising:
- means for obtaining at least one element selected from: network operator identifier (OID), auxiliary value (Salt), expiry time, and integrity code; and

- means for including the at least one element into the user's service indicator (USI).
- 4. The Identity Generator device of claim 1, wherein the master user's identifier (UID) is built up as function (SHA-1) of a real user identity (MSISDN).

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- 5. The Identity Generator device of any preceding claim, further comprising means for carrying out a symmetric cipher of the user's service indicator using a ciphering key (K_E) .
- 10 6. The Identity Generator device of claim 5, wherein the ciphering key (K_E) is unique for all the applicable service providers (1; 2; 3).
 - 7. The Identity Generator device of claim 5, wherein the ciphering key (K_E) is different per each service provider (1; 2; 3).
 - 8. The Identity Generator device of any preceding claim, further comprising a Decomposer component (7) having means for carrying out a reverse generation (F⁻¹) to obtain a master user's identifier (UID) from a given user's service indicator (USI).
 - 9. A Decomposer component (7) having means for carrying out a reverse generation (F⁻¹) to obtain a master user's identifier (UID) from a given user's service indicator (USI), the Decomposer component (7) arranged for integration in, or co-operation with, at least one entity selected from: the Identity Generator device (6) and other entities at the identity provider domain or at the service provider domain.
- 10. The Decomposer component of claim 9, wherein the means for carrying out a reverse generation (F⁻¹) includes means for obtaining the service identifier (SID) used to generate the given user's service indicator (USI).

11. The Decomposer component of claim 9, wherein the means for carrying out a reverse generation (F^{-1}) may further include means for obtaining at least one element selected from: network operator identifier (OID), and ciphering key (K_E) used to generate the given user's service indicator (USI).

- 12. The Decomposer component of claim 9, wherein the means for carrying out a reverse generation (F⁻¹) may further include:
- 10 means for obtaining applicable expiry time criteria; and
 - means for verifying the validity of a given temporary user's service indicator (T-USI) against said expiry time criteria.
- 13. The Decomposer component of claim 9, further comprising means for verifying the validity of a given user's service indicator (USI) by making use of the master user's identifier (UID) as a search key towards a user directory system (4).
- 20 14. A method for generating a user's service indicator (USI) intended for a user (5) to access a number of services offered by a service provider (1; 2; 3) through a network operator where user data (4) for the user are accessible, this user's service indicator being usable between the service provider (SP-1; SP-2; SP-N) domain and the network operator (IDP) domain to unambiguously identify the user at each respective domain, the method characterized by comprising:
- a step of obtaining a master user's identifier (UID)

 30 usable to identify the user (5) at the operator's network;

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- a step of obtaining a service identifier (SID), indicative of services to be accessed at the service provider; and
- a step of constructing a user's service indicator that includes the master user's identifier and the service identifier.
 - 15. The method of claim 14, wherein the step of obtaining a service identifier includes a step of obtaining at least one element selected from: a service provider indicator (SPI), and a number of service indicators (S1I; SMI).
 - 16. The method of claim 14, further comprising:

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- a step of obtaining at least one element selected from: network operator identifier (OID), auxiliary value (Salt), expiry time, and integrity code; and
- a step of including the at least one element into the user's service indicator (USI).
- 17. The method of claim 14, wherein the step of obtaining a master user's identifier includes a step of applying a function (SHA-1) to a real user identity (MSISDN).
 - 18. The method of claim 14, further comprising a step of carrying out a symmetric cipher of the user's service indicator using a ciphering key (K_E) .
- 19. The method of claim 18, wherein the ciphering key (K_E) is unique for all the applicable service providers.
 - 20. The method of claim 18, wherein the ciphering key (K_E) is different per each service provider.
- 21. The method of claim 20, further comprising a step of determining a service provider issuing a communication based on a given user's service indicator.

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 - 22. The method of any preceding claim, further comprising a step of carrying out a reverse generation (F⁻¹) to obtain the master user's identifier (UID) from a given user's service indicator (USI).
- 5 23. A use of the Identity Generator device (6) of claim 1 integrated in, or in close co-operation with, an entity of an identity provider (IDP) network.
 - 24. The use of claim 23, wherein the identity provider (IDP) network is an operator's network where the user data are accessible.

- 25. The use of claim 24, wherein the entity is a Central Provisioning Entity responsible for provisioning tasks in the operator's network.
- 26. The use of claim 24, wherein the entity is a User

 Directory System (4) storing user data.
 - 27. The use of claim 24, wherein the entity is a Border Gateway placed at the border of the operator domain.
- 28. The use of claim 27, wherein the Border Gateway is an entity selected from: an HTTP Proxy, a WAP Gateway, and a Messaging Gateway.
 - 29. A use of the Decomposer component of claim 9, wherein one of said other entities may be a Border Gateway selected from: an HTTP Proxy, a WAP Gateway, and a Messaging Gateway.